

In the Claims:

Please add the following claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents:

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36. A non-naturally occurring transformed *Brassica* CC genome comprising an exogenous transparent seed coat gene obtained from a *Brassica* AA genome.
37. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein said *Brassica* CC genome is transformed by a method comprising the steps of chromosome doubling and embryo rescue.
38. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
39. A non-naturally occurring transformed *Brassica* CC genome according to Claim 37 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
40. The non-naturally occurring transformed *Brassica* CC genome according to Claim 38 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
41. The non-naturally occurring transformed *Brassica* CC genome according to Claim 39 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
42. A non-naturally occurring transformed *Brassica* CC genome according to Claim 36 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
43. A non-naturally occurring transformed *Brassica* CC genome according to Claim 37 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
44. A non-naturally occurring transformed *Brassica* CC genome according to Claim 38 wherein the transformed CC genome is a transformed *Brassica napus* CC genome.
45. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue comprising an exogenous transparent seed coat gene obtained from a *Brassica* AA genome.
46. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
47. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.

48. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 46 wherein the transformed *Brassica* plant, plant cell or plant tissue is a transformed *Brassica napus* plant, plant cell or plant tissue.

49. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 45 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.

50. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 46 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.

51. A non-naturally occurring transformed *Brassica* plant, plant cell or plant tissue according to Claim 48 wherein the transformed *Brassica* plant, plant cell or plant tissue yields seeds with a transparent seed coat or yields plants having seeds with a transparent seed coat.

52. A non-naturally occurring transformed *Brassica* plant according to Claim 45 wherein the transformed plant is non-sterile.

53. A non-naturally occurring transformed *Brassica* plant according to Claim 46 wherein the transformed plant is non-sterile.

54. A non-naturally occurring transformed *Brassica* plant according to Claim 48 wherein the transformed plant is non-sterile.

55. A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 36 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:

(i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high level of erucic acid; and

(ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).

56. A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 37 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:

(i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high level of erucic acid; and

- (ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).

57. A non-naturally occurring *Brassica* yellow seed comprising the non-naturally occurring transformed *Brassica* CC genome of Claim 38 or an exogenous transparent seed coat gene obtained from a *Brassica* AA genome and any one of:

- (i) zero erucic acid or a low level of erucic acid or a medium level of erucic acid or a high level of erucic acid; and

- (ii) zero glucosinolate(s) or a low level of glucosinolate(s) or a medium level of glucosinolate(s) or a high level of glucosinolate(s).

58. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed is a transformed *Brassica napus* yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).

59. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed is a transformed *Brassica napus* yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).

60. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed is a transformed *Brassica napus* yellow seed having a low level of erucic fatty acid and a low level of glucosinolate(s).

61. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed is a transformed *Brassica napus* yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).

62. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed is a transformed *Brassica napus* yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).

63. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed is a transformed *Brassica napus* yellow seed having a medium level of erucic fatty acid and a high level of glucosinolate(s).

64. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.

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65. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.
66. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black seed or a brown seed.
67. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
68. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
69. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the yellow seed has an oil and protein content of at least about 70% seed dry matter.
70. A non-naturally occurring *Brassica* yellow seed according to Claim 55 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
71. A non-naturally occurring *Brassica* yellow seed according to Claim 56 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
72. A non-naturally occurring *Brassica* yellow seed according to Claim 57 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
73. A non-naturally occurring *Brassica* yellow seed according to Claim 67 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black seed or a brown seed.
74. A non-naturally occurring *Brassica* yellow seed according to Claim 70 wherein the seed has a fiber content of not more than about 8% oil free meal.
75. A non-naturally occurring *Brassica* yellow seed according to Claim 71 wherein the seed has a fiber content of not more than about 8% oil free meal.
76. A non-naturally occurring *Brassica* yellow seed according to Claim 72 wherein the seed has a fiber content of not more than about 8% oil free meal.

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77. A non-naturally occurring *Brassica* yellow seed according to Claim 73 wherein the seed has a fiber content of not more than about 8% oil free meal.
 78. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 55.
 79. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 56.
 80. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 57.
 81. A seed oil or a seed meal produced from or containing a non-naturally occurring *Brassica* yellow seed according to Claim 67.
 82. A method for increasing the levels of seed oil and protein and reducing the levels of fiber in a seed wherein the method comprises: transferring the transparent seed coat gene of an AA genome of a first *Brassica* plant, plant tissue or plant cell into a CC genome of a second *Brassica* plant, plant tissue or plant cell.
 83. A method according to Claim 82 wherein said method comprises the steps of chromosome doubling and embryo rescue.
 84. A method according to Claim 82 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
 85. A method according to Claim 84 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
 86. A method according to Claim 82 wherein the CC genome is a *Brassica napus* CC genome.
 87. A method according to Claim 83 wherein the CC genome is a *Brassica napus* CC genome.
 88. A method according to Claim 84 wherein the CC genome is a *Brassica napus* CC genome.
 89. A method according to Claim 82 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.
 90. A method according to Claim 83 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.

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91. A method according to Claim 84 wherein the seed has an increased level of seed oil and protein compared to the seed oil and protein level in a black or a brown seed.
 92. A method according to of Claim 82 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
 93. A method according to of Claim 83 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
 94. A method according to of Claim 84 wherein the seed has an oil and protein content of at least about 70% seed dry matter.
 95. A method according to Claim 82 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
 96. A method according to Claim 83 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
 97. A method according to Claim 84 wherein the seed has a decreased level of seed fiber compared to the seed fiber level in a black or a brown seed.
 98. A method according to Claim 82 wherein the seed has a fiber content of not more than about 8 % oil free meal.
 99. A method according to Claim 83 wherein the seed has a fiber content of not more than about 8 % oil free meal.
 100. A method according to Claim 84 wherein the seed has a fiber content of not more than about 8 % oil free meal.
 101. A non-naturally occurring transformed *Brassica napus* plant yielding seeds with a transparent seed coat.
 102. A method for delivery of one or more genes of interest to a heterologous genome wherein the method comprises the use of a *Brassica* AA genome as a vector.
 103. A method according to Claim 102 wherein the *Brassica* AA genome is an AA genome obtained from a *Brassica* selected from the group consisting of *Brassica campestris*, *Brassica napus* and *Brassica juncea*.
 104. A method according to Claim 103 wherein the *Brassica* AA genome is obtained from *Brassica campestris*.
 105. A method according to Claim 103 wherein the heterologous genome is a *Brassica napus* CC genome.

~~106. A method according to Claim 104 wherein the heterologous genome is a *Brassica napus* CC genome.~~

~~107. A transparent seed coat encoded by a transparent seed coat gene obtainable from NCIMB 40991 and/or NCIMB 40992.~~

~~108. A non-naturally occurring *Brassica* plant, plant cell or plant tissue comprising the non-naturally occurring *Brassica* genome of Claim 36.~~

~~109. A method for preparing the non-naturally occurring *Brassica* plant, plant cell or plant tissue of Claim 108 wherein the method comprises: transferring the transparent seed coat gene of an AA genome of a first *Brassica* plant, plant tissue or plant cell into a CC genome of a second *Brassica* plant, plant tissue or plant cell.--~~

Please cancel Claims 1-35 without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents.